Dr. M S Srividya

I am currently working as Associate Professor in the Department of Computer Science and Engineering at R.V. College of Engineering, Bangalore, with over 20 years of experience spanning both academia and the software industry. I began my career as a software engineer at Sasken Communication Technologies and later worked as a Senior Software Engineer at SARNOFF Corporation before transitioning into academia in 2011. I completed my PhD in 2024 with a research focus on intelligent surveillance systems for detecting physical abuse. My academic journey includes numerous Scopus-indexed publications, journal articles, and a book chapter, primarily in the areas of deep learning, human action recognition, and AI-based surveillance. I've also been involved in consultancy and funded research projects, including work on bat species classification and security automation frameworks. Beyond teaching and research, I actively engage in student development initiatives, curriculum design, and technical training programs. I am passionate about advancing my expertise and contributing to impactful research in the field of computer science and engineering.

Personal Information

- **Name:** Dr. M S Srividya
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**Google Scholar / ResearchGate /
LinkedIn:** https://scholar.google.co.in/citations?user=_y_FiMQAAAAJ&hl=en

Domain of Expertise: **Artificial Intelligence, Machine Learning, Deep Learning**, and **Computer Vision**

Research Focus

- **Primary Area: AI based Human action recognition** using **Deep Learning and Computer Vision techniques**.
- **Allied Areas:**
  - Computer Vision
  - Machine Learning & Deep Learning
  - Embedded Systems & Real-Time Video Processing
  - Federated Learning
  - Multimedia Processing

Academic Qualifications

- **Ph.D.**: Computer Science and Engineering, VTU, 2024 (Thesis title: "Intelligent Surveillance for Physical Abuse Detection"]
- **M.Sc./M.Tech**: M.Tech in CSE , VTU, 2014
- **B.E./B.Tech**: B.E. in CSE, Bangalore University, 2000

Professional Experience

S.No	Institute/College/Industry	Job Title	Duration (From- To)
Experience			
1.	Sasken Communications Ltd., Bangalore	Software Engineer	Oct 2000 – June 2005
2.	Sarnoff Corporation, Bangalore	Senior Software Engineer	June 2005 – Jan 2009
3.	Global Academy of Technologies	Assistant Professor	Jan 2011 – Dec 2015
4.	R V College of Engineering	Associate Professor	Jan 2016 till date

Publications & Patents

Journal Publications

1. Srividya M S, Dr. Anala M R, "AI-Based Surveillance Framework for Physical Violence Detection", International Journal of Intelligent Systems and Applications in Engineering (IJISAE) (Q3 Journal) vol. 12, no. 3, pp. 1470–1481, April 2024.
2. Srividya M S, Dr. Anala M R, Chetan Tayal, "DEEP LEARNING TECHNIQUES FOR PHYSICAL ABUSE DETECTION" IAES International Journal of Artificial Intelligence (IJ-AI), Vol. 10, No. 4, Dec 2021, pp. 971–981, ISSN: 2252–8938, DOI:10.11591/ijai.v10.i4.pp971–981 (Q2 journal)
3. Srividya M. S., Anala M. R., "Research Trends in Hand Gesture Recognition Techniques", International Journal of Recent Technology and Engineering, ISSN: 2277–3878, Volume-8 Issue-6, March 2020 (Q4 journal)
4. Srividya M. S., Amogh S. Gopadi, Deepak S., Kiran R. B., Naveena A. M., Anala M. R., "Facial Expression Analysis using Convolutional Neural Networks ", International Journal of Engineering and Advanced Technology (IJEAT) , Volume-9 Issue-4, April 2020 (Q4 journal)
5. Harshitha R, Kavya S Muttur, Nandini R, Jayanth P, M S Srividya, Anala M R, "Real Time Human-Human Interaction Recognition Using Convolutional Neural Networks", International Research Journal of Engineering and Technology (IRJET), Volume: 08, Issue: 06, June 2021.
6. Harsh Raj, Aditya Duggal, Aditya Kumar Shetty M, Sreekanth Uppara, Srividya M S , "Hand Motion Analysis using CNN ", International Journal of Soft Computing and Engineering (IJSCE) , Volume-9 Issue-6, May 2020.
7. M. S. Srividya, Shobha G., "A Survey on: Underwater Video Processing for Detecting and Tracking Moving Objects", International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231–2307, Volume-4 Issue-1, March 2014.
8. Srividya M. S., Hemavathy R., Shobha G., "Underwater Video Processing for Detecting

and Tracking Moving Object", International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307, Volume-4, Issue-3, July 2014

Conference Papers

1. Srividya M S and Anala M R, "Machine Learning based framework for Human Action Detection", International Conference on Advances in Data driven Computing and Intelligent Systems (ADCIS 2022), BITS Pilani, September 23-25, 2022 (Scopus indexed publication)
2. M. S. Srividya, M. R. Anala, N. Dushyanth and D. V. S. K. Raju, "Hand Recognition and Motion Analysis using Faster RCNN," 2019 4th International Conference on Computational Systems and Information Technology for Sustainable Solution (CSITSS), 2019, pp. 1-4, doi: 10.1109/CSITSS47250.2019.9031033 (Scopus indexed journal)
3. Md Afeef, Srushti, Bindu, M. S. Srividya, Manonmani, "A Systematic Review on Multi-Modal Federated Learning Techniques for Early Alzheimer's Disease Detection", 8th IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions (CSITSS), held from 7th to 9th November, 2024.
4. Nishchal S, M. S. Srividya, "Recommendation System For Social Platform Using Deep Learning Techniques", 8th IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions (CSITSS), held from 7th to 9th November, 2024.

Books/Book Chapters

1. M S Srividya and Anala M R "Machine Learning based framework for Human Action Detection", SCSR Publications, Data Science and Intelligent Computing Techniques, Publishing Date: 20-12-2023, ISBN: 978-81-955020-2-8, DOI: https://doi.org/10.56155/978-81-955020-2-8-72.

R & Grants & Consultancy Projects

Ongoing & Completed Research Projects

- Research project titled "Remote Monitoring and Classification of bat species" funded by Bat Conservation India Trust (BCIT), Bangalore.

Ongoing & Completed Consultancy Projects

- Hypervisor Security: building security and compliance patch management solution automation framework by Hewlett Packard (India) Software Operations Private Limited.
- Software training and consultancy for Wizergos Software Solutions Private Limited.

Professional Memberships

- IEEE

Awards & Recognitions

- Member of the "Team of the Quarter" in Sasken Communications Technologies, for the quarter of January 2001 – March 2001.
- Won "Smart Project Award" in Sasken Communications Technologies, for H.263 Video Encoder on TMS320C55x project during January 2002 – June 2002.

Student Supervision

- **M.Tech/M.Sc. Students:** 12
- **Undergraduate Research Mentees:** 25

Professional Roles

- **Chair/Committee Member:** International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS)

Teaching

Core Courses: [Current semester]

- IOT and Embedded Computing
- Applied Deep Learning
- Advanced Cloud Computing and Distributed Systems
- Data Structures and Applications

Advanced/Lab Courses:

- Applied Deep Learning LAB
- IOT LAB

Professional Roles

Responsibilities

- **Academic:** PG Exam Unit Coordinator: handles coding, valuation to result announcement of Semester End Exams for Mtech CSE and CNE branches
- **Administrative:** CIE Test Coordinator: complete conduction of 3 CIE tests for all semesters of UG Programs of CS/CD/CY and AIML